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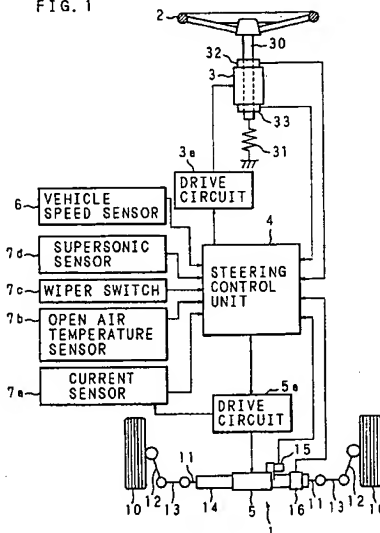
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- (54) **Steering system for automobile**

(57) A reaction force actuator 3 for giving reaction force to a steering wheel 2 disengaged from a steering mechanism 1 is provided. A steering control unit 4 is provided to control so that the reaction force decided in accordance with the detected results of the running speed by a vehicle speed sensor 6 and the detected results of a road surface condition by a current sensor 7a, an open air temperature sensor 7b, a wiper switch 7c and a super-sonic wave sensor 7d. Also, the steering motor 5 for applying the steering force to the steering mechanism 1 is operated smaller at higher speed and larger at slower speed at running by the operation of the steering control unit 4 in accordance with the detected results of the running speed by the vehicle speed sensor 6. Therefore, the same steering feelings as those of the coupling type steering system are obtained to realize a steering system enabling the reliable steering operation to effect under the various different running conditions. Also, the both of the steering operation at the slow speed or at the stop time is dissolved by simple construction.

FIG. 1



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# EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	DE 42 32 256 A (HONDA MOTOR CO LTD) 8 April 1993 * column 2, line 27 - column 7, line 2; figures 1-5 *	1,3	B62D6/00 B62D5/04 //B62D101:00, B62D107:00, B62D113:00, B62D119:00, B62D135:00, B62D137:00, B62D153:00
Y		2	
A		4	
Y,D	PATENT ABSTRACTS OF JAPAN vol. 013, no. 118 (M-806), 23 March 1989 -& JP 63 291770 A (FUJI HEAVY IND LTD), 29 November 1988, * abstract *	2	
A		1	
A	DE 42 07 719 A (ZAHNRADFABRIK FRIEDRICHSHAFEN) 16 September 1993 * column 3, line 32 - line 56; figure 1 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B62D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12 June 1998	Examiner Kulozik, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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